

[Previous Doc](#) [Next Doc](#) [Go to Doc#](#)
[First Hit](#)

☐ [Generate Collection](#)

L5: Entry 26 of 36

File: DWPI

May 20, 1998

DERWENT-ACC-NO: 1998-592813
DERWENT-WEEK: 199851
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Magnetohydrodynamic granulator - has rectangular granulation chamber with openings in its two vertical walls oriented parallel to the magnetic field

INVENTOR: AEALAKOV, V V; KULINSKII, A I ; SHEPIN, L A

PATENT-ASSIGNEE:

| | |
|---|-------|
| ASSIGNEE | CODE |
| AVISMA TITANIUM MAGNESIUM COMB STOCK CO | AVISR |

PRIORITY-DATA: 1996RU-0120053 (October 4, 1996)

[Search Selected](#)

[Search ALL](#)

[Clear](#)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|--|--------------|----------|-------|------------|
| <input type="checkbox"/> RU 2111087 C1 | May 20, 1998 | | 006 | B22F009/06 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|-----------------|----------------|------------|
| RU 2111087C1 | October 4, 1996 | 1996RU-0120053 | |

INT-CL (IPC): [B22 F 9/06](#)

ABSTRACTED-PUB-NO: RU 2111087C

BASIC-ABSTRACT:

The granulator includes a source of a magnetic field, a granulation chamber (2) with openings (4) placed between the poles (1) of the magnetic field, and a system (3) for conductional delivery of electric current to the molten metal. The granulation chamber takes the form of a rectangular parallelepiped. The openings are located in two vertical walls whose planes are parallel to the direction of the magnetic field, and are oriented perpendicular to the earth surface.

A direct current electromagnet was used to produce in the space between its poles a magnetic field with a flux density of 0.5-1.0 tesla. The melt was supplied with a current of a frequency of 150-400 Hz and a magnitude of 300-400 A. The melt was delivered into the granulation chamber from a hermetically sealed mixer through a metal pipe by an inert gas (argon) under pressure.

USE - For granulation of electrically conductive melts of aluminium, magnesium and other metals.

ADVANTAGE - Productivity is at least doubled in comparison with known analogous equipment. Granule diameter is reduced.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: MHD GRANULE RECTANGLE GRANULE CHAMBER OPEN TWO VERTICAL WALL ORIENT
PARALLEL MAGNETIC FIELD

DERWENT-CLASS: M22 P53 X25

CPI-CODES: M22-H01;

EPI-CODES: X25-J; X25-Q;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-177772

Non-CPI Secondary Accession Numbers: N1998-461176

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)